

Resource Summary Report

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SD-Tg(Ddx4-Cas9)SynblRrrc

RRID:RGD_155260362

Type: Organism

Proper Citation

RRID:RGD_155260362

Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=155260362>

Proper Citation: RRID:RGD_155260362

Description: Rattus norvegicus with name SD-Tg(Ddx4-Cas9)SynblRrrc from RGD.

Species: Rattus norvegicus

Notes: rat strain designed to express Cas9 under the control of the rat Ddx4 (Vasa) regulatory elements while also retaining expression of Ddx4. The strategy entailed insertion of a P2A sequence followed by human-codon-optimized Cas9 coding sequences with nuclear localization signals near the C-terminus of the rat Ddx4 (Vasa) gene. Animals express Cas9 in the testis in the spermatogonial layer and in meiosis stages with 4N DNA content. Strain catalyzes high levels of Active Genetic Gene conversion when paired with certain Active Genetic cassettes. ROBUST AND EFFICIENT ACTIVE GENETICS GENE CONVERSION IN THE RAT AND MOUSE Chenyen Lai, Oscar Alvarez, Kristen Read, Don van Fossan, Christopher M Conner, Shannon Xaing-Ru Xu, Dale O. Cowley, Valentino Gantz, David R. Webb, Kurt Jarnagin URL: Doi:10.1101/2022.08.30.505951 URL: Doi:10.1101/2022.08.30.505951 RRRC

Catalog Number: 155260362

Background: transgenic

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 155260362

Organism Name: SD-Tg(Ddx4-Cas9)SynblRrrc

Record Creation Time: 20230509T191952+0000

Record Last Update: 20260905T135244+0000

Ratings and Alerts

No rating or validation information has been found for SD-Tg(Ddx4-Cas9)SynblRrc.

No alerts have been found for SD-Tg(Ddx4-Cas9)SynblRrc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We have not found any literature mentions for this resource.